

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/512,045A  
Source: IFWP  
Date Processed by STIC: 6/30/06

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IFWP

## RAW SEQUENCE LISTING

DATE: 06/30/2006

PATENT APPLICATION: US/10/512,045A

TIME: 08:34:44

Input Set : A:\P70201US0 sequence listing.txt

Output Set: N:\CRF4\06302006\J512045A.raw

3 <110> APPLICANT: NEOVACS  
 5 <120> TITLE OF INVENTION: non immunosuppressive immunogenic or vaccine  
 6 composition comprising a mutated E7 protein  
 7 of the HPV-16 virus  
 9 <130> FILE REFERENCE: NEOVACS - N729-PCT  
 11 <140> CURRENT APPLICATION NUMBER: US/10/512,045A  
 12 <141> CURRENT FILING DATE: 2004-10-21  
 14 <150> PRIOR APPLICATION NUMBER: FR0205173  
 15 <151> PRIOR FILING DATE: 2002-04-24  
 17 <160> NUMBER OF SEQ ID NOS: 4  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 92  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: artificial sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: artificial sequence  
 28 description: a mutated E7 protein  
 29 of the HPV-16 virus: E7-delta-21-26  
 31 <400> SEQUENCE: 1  
 32 Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln  
 33 1 5 10 15  
 35 Pro Glu Thr Thr Gln Leu Asn Asp Ser Ser Glu Glu Glu Asp Glu Ile  
 36 20 25 30  
 38 Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp Arg Ala His Tyr Asn Ile  
 39 35 40 45  
 41 Val Thr Phe Cys Cys Lys Cys Asp Ser Thr Leu Arg Leu Cys Val Gln  
 42 50 55 60  
 44 Ser Thr His Val Asp Ile Cys Thr Leu Glu Asp Leu Leu Met Gly Thr  
 45 65 70 75 80  
 47 Leu Gly Ile Val Cys Pro Ile Cys Ser Arg Lys Pro  
 48 85 90  
 52 <210> SEQ ID NO: 2  
 53 <211> LENGTH: 276  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: artificial sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: artificial sequence  
 59 description: a mutated E7 protein  
 60 of the HPV-16 virus: E7-delta-21-26E7-delta-21-26  
 62 <400> SEQUENCE: 2  
 63 catggagata cacctacatt gcatgaatat atgttagatt tgcaaccaga gacaactcaa 60  
 64 ttaaatgaca gtcagagga ggaggatgaa atagatggtc cagctggaca agcagaaccg 120

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65 gacagagccc attacaatat tgtaaccattt tgttgcaagt gtgactctac gcttcgggttg 180  
66 tgcgtacaaa gcacacacgt agacattcgt actttggaag acctgttaat gggcacacta 240  
67 ggaattgtgt gccccatctg ttctcagaaa ccataa 276

70 <210> SEQ ID NO: 3  
71 <211> LENGTH: 98  
72 <212> TYPE: PRT  
73 <213> ORGANISM: Human papillomavirus type 16  
75 <400> SEQUENCE: 3

76 Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln  
77 1 5 10 15  
79 Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser  
80 20 25 30  
82 Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp  
83 35 40 45  
85 Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr  
86 50 55 60  
88 Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Cys Thr Leu Glu  
89 65 70 75 80  
91 Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Arg  
92 85 90 95  
94 Lys Pro  
99 <210> SEQ ID NO: 4  
100 <211> LENGTH: 294  
101 <212> TYPE: DNA  
102 <213> ORGANISM: Human papillomavirus type 16  
104 <400> SEQUENCE: 4

105 catggagata cacctacatt gcatgaatat atgttagatt tgcaaccaga gacaactgat 60  
106 ctctactgtt atgagaatt aaatgacagc tcagaggagg agatgaaat agatggtcca 120  
107 gctggacaag cagaaccgga cagagccat tacaatattg taacctttg ttgcaagtgt 180  
108 gactctacgc ttccgttgtc cgtacaaagc acacacgtac acattcgat tttggaagac 240  
109 ctgttaatgg gcacactagg aattgtgtgc cccatctgtt ctcagaaacc ataa 294

**VERIFICATION SUMMARY**

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